

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of presense and advance detection making the existing traffic signal fullactuated at the intersection of MD 272 and I-95 off ramp in Cecil County.

MD 272 is assumed to run in an north-south direction.

II. INTERSECTION OPERATION

1. The intersection shall operate as a four-phase, full-actuated-mode with a lagging Exclusive/ Permissive left turn for southbound MD 272 onto the I-95 Ramp. MD 272 approaches shall operate together and the Ramp shall operate alone.

2. The existing eight-phase controller housed in a NEMA size "6" base-mounted cabinet shall be utilized. Three NEMA load switches and two 4-channelrack mounted amplifiers with power supply and panel shall be installed into the existing cabinet.

III. SPECIAL NOTES:

1. The Contractor shall be responsible for terminating all signal cables to the appropriate terminals and shall properly label each cable. The Contractor shall contact Mr. Ed Rodenhizer (410- 787-5200) Chief of the Signal Shop 72 hours in advance to the internal controller wiring to have a Signal Shop representative present.

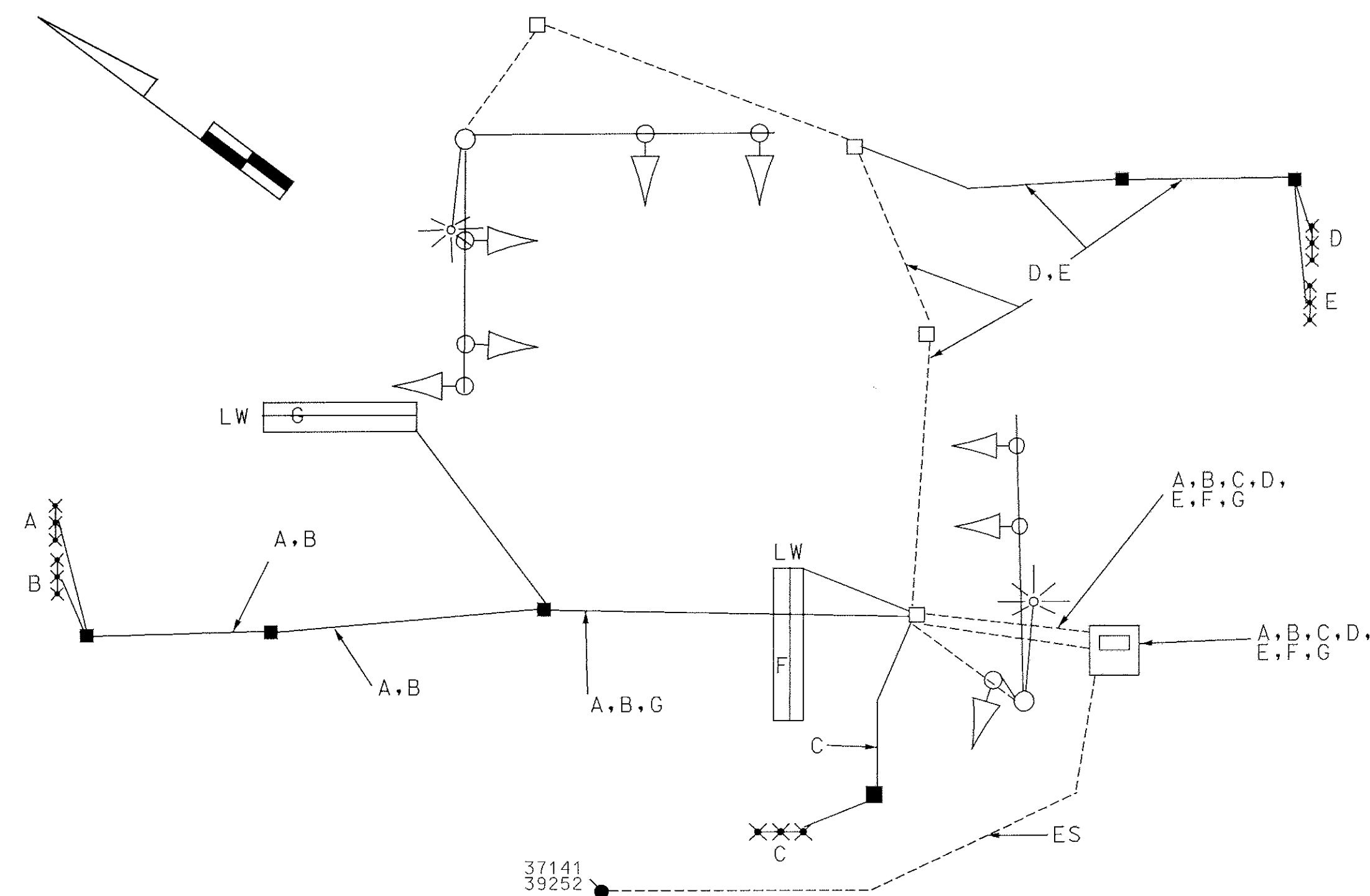
EQUIPMENT LISTS

A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
9001	2 EA.	Detector amplifiers 4-channelrack mounted.
9002	1 EA.	Detector panel.
9003	1 EA.	Rack power supply.
9004	3 EA.	NEMA load switch.

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

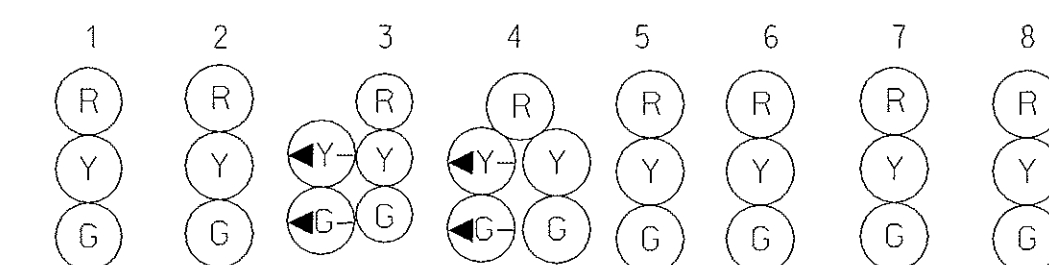
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA.	Maintenance of Traffic.
1002	1 EA.	Modilization.
8011	780 L.F.	3" Schedule 80 rigid PVC conduit- trenched.
8012	36 L.F.	4" x 4" Wood sign supports.
8013	33 S.F.	Ground mounted sign W3-3 "NEW" (48" x 48").
8015	10 L.F.	1" electrical conduit galvanized sleeve.
8018	30 L.F.	1" non-metallic conduit for detector sleeve.
8021	7 EA.	Electrical handhole.
8025	130 L.F.	2-Conductor No.14 AWG aluminum shielded.
8026	1220 L.F.	Loop wire encased in flexible tubing (14 AWG).
8027	265 L.F.	Sawcut for signal loop detector.
8032-A	5 EA.	Probe set with 500' leadin.
8047-A	65 L.F.	4" Schedule 80 PVC conduit- bored.



Wiring Key

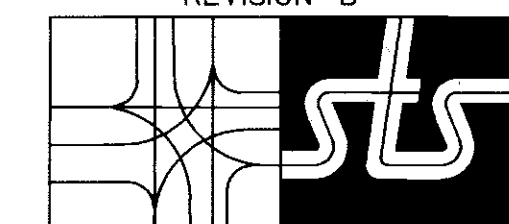
A, B, C, D, E } Microloop triple probe set with 500' lead-in.
F } 2- Conductor No.14 AWG aluminum shielded.
G }
ES - Existing electrical service to be maintained.
NOTE: All remaining cables to be maintained.

PHASE CHART



PHASE 2 & 6	G	G	G	G	G	R	R	R	←
6 CHANGE	Y	Y	G	G	G	R	R	R	→
PHASE 2 & 5	R	R	G	G	G	R	R	R	↖
2 & 5 CHANGE	R	R	G	G	Y	R	R	R	↗
PHASE 4	R	R	R	R	R	G	G	G	↑
4 CHANGE	R	R	R	R	R	Y	Y	Y	↓
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	↔

REVISION 'B'



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Task43GI.DGN



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

MD 272 AND NORTHBOUND I-95 RAMP

DRAWN BY: MILESKY	COUNTY: CECIL	TS NO. 3721B	SHEET NO. 2 OF 2
CHECK BY: RRZ	LOG MILE: 07027212.73	T.I.M.S. NO. D 912	
DATE: 08/09/00	F.A.P. NO. AW 718459		
SCALE: N/A	S.H.A. NO. 718459		